

Supplement to Catalogue No. 18

New List Prices on
Bonney
Drop-Forged Wrenches

Effective May 1, 1916

BONNEY DROP-FORGED WRENCHES



Finished Wrench Forgings are milled only, not hardened.



Semi-finished Wrench Forgings are milled, hardened and ends are polished.



Finished Wrench Forgings are milled, polished all over, case hardened, mottled and lacquered, heads bright.

Drop Forged Wrenches milled to order without extra charge in lots of 50 or more of a size; special wrenches made to order from models or drawings.

In ordering, be sure to specify finish desired. When no finish is specified, we will ship Semi-finished Wrenches.

Note: These new list prices cancel
all former lists

Manufactured by
Bonney Vise & Tool Works, Inc.
Factory and General Office
Allentown, Pa.

New York

Philadelphia

Please insert this Supplement at page 13 of Catalogue No. 18. The page numbers in this Supplement correspond with page numbers in Catalogue No. 18



TRADE

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SINGLE END ENGINEERS' WRENCHES



For U. S. Standard Hexagon Nuts Drop-Forged of Bar Steel
15° Angle

No.	For U. S. Standard Nut; Size Bolt	Opening Milled	Extreme Length	Thickness Head	PRICE EACH			No.
					Unfin- ished	Semi- finished	Finished	
00	$\frac{1}{8}$	$\frac{5}{16}$	$2\frac{1}{2}$	$\frac{3}{16}$	\$0.09	\$0.14	\$0.22	00
0	$\frac{3}{8}$	$\frac{1}{2}$	$2\frac{7}{8}$	$\frac{7}{32}$	.10	.15	.25	0
1	$\frac{1}{4}$	$\frac{3}{8}$	$3\frac{3}{4}$	$\frac{1}{4}$	.12	.18	.28	1
2	$\frac{5}{8}$	$\frac{3}{4}$	$4\frac{3}{4}$	$\frac{3}{8}$	.15	.22	.32	2
3	$\frac{3}{8}$	$\frac{1}{2}$	$5\frac{5}{8}$	$\frac{9}{16}$	.18	.26	.38	3
4	$\frac{1}{2}$	$\frac{3}{4}$	$6\frac{1}{2}$	$\frac{3}{4}$	.22	.32	.45	4
5	$\frac{3}{4}$	$\frac{1}{2}$	$7\frac{1}{2}$	$\frac{1}{2}$	.26	.38	.54	5
6	$\frac{9}{16}$	$\frac{1}{2}$	$8\frac{3}{8}$	$\frac{1}{2}$	.31	.46	.65	6
7	$\frac{3}{8}$	$\frac{1}{2}$	$9\frac{1}{8}$	$\frac{1}{2}$	.40	.57	.82	7
8	$\frac{3}{8}$	$\frac{1}{2}$	$11\frac{1}{8}$	$\frac{1}{2}$	.55	.75	1.05	8
9	$\frac{7}{8}$	$\frac{1}{2}$	13	$\frac{1}{2}$	.85	1.15	1.52	9
10	1	$\frac{1}{2}$	$14\frac{3}{4}$	$\frac{1}{2}$	1.20	1.60	2.10	10
11	$1\frac{1}{8}$	$\frac{1}{2}$	$16\frac{1}{2}$	$\frac{1}{2}$	1.65	2.10	2.80	11
12	$1\frac{1}{4}$	2	$18\frac{1}{2}$	$\frac{1}{2}$	2.20	2.85	3.70	12
13	$1\frac{3}{8}$	$2\frac{3}{8}$	20	1	2.80	3.65	4.70	13
14	$1\frac{1}{2}$	$2\frac{3}{8}$	22	$1\frac{1}{8}$	3.45	4.60	5.80	14
15	$1\frac{5}{8}$	$2\frac{9}{16}$	24	$1\frac{1}{8}$	4.15	5.60	7.10	15
16	$1\frac{3}{4}$	$2\frac{1}{2}$	$25\frac{1}{2}$	$1\frac{3}{8}$	4.90	6.70	8.50	16
$16\frac{1}{2}$	$1\frac{7}{8}$	$2\frac{5}{8}$	27	$1\frac{7}{8}$	4.90	6.70	8.50	$16\frac{1}{2}$
17	2	$3\frac{1}{8}$	$29\frac{1}{2}$	$1\frac{3}{4}$	7.50	10.25	13.00	17
18	$2\frac{1}{4}$	$3\frac{1}{2}$	33	$1\frac{7}{8}$	11.50	14.75	18.00	18
19	$2\frac{1}{2}$	$3\frac{3}{8}$	37	$1\frac{3}{4}$	17.00	21.00	25.00	19
$19\frac{1}{2}$	$2\frac{3}{4}$	$4\frac{1}{8}$	39	$1\frac{3}{4}$	17.00	21.00	25.00	$19\frac{1}{2}$
20	3	$4\frac{5}{8}$	41	$1\frac{3}{4}$	25.00	31.00	37.00	20
20A	$3\frac{1}{4}$	5	43	$1\frac{3}{4}$	25.00	31.00	37.00	20A
20B	$3\frac{1}{2}$	$5\frac{3}{8}$	51	$1\frac{3}{4}$	40.00	52.00	64.00	20B
20C	$3\frac{3}{4}$	$5\frac{3}{4}$	51	$1\frac{3}{4}$	40.00	52.00	64.00	20C
20D	4	$6\frac{3}{8}$	53	$1\frac{3}{4}$	40.00	52.00	64.00	20D
20E	$4\frac{1}{2}$	$6\frac{3}{4}$	53	$1\frac{3}{4}$	80.00	102.00	124.00	20E
20F	5	7	53	$1\frac{3}{4}$	80.00	102.00	124.00	20F

Be particular when ordering to state whether unfinished, semi-finished or finished are wanted.



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DOUBLE END ENGINEERS' WRENCHES



For U. S. Standard Hexagon Nuts. Drop-Forged of Bar Steel.
15° Angle.

No.	For U. S. Standard Nuts; Size Bolts	Openings Milled	Ex- treme Length	Thickness Head	PRICE EACH			No.
					Unfin- ished	Semi- finished	Fin- ished	
21	$\frac{1}{8}$ & $\frac{3}{16}$	$\frac{5}{16}$ $\frac{1}{2}$	3 $\frac{1}{4}$	$\frac{1}{8}$ $\frac{7}{32}$	\$0.12	\$0.17	\$0.26	21
22	$\frac{1}{8}$ & $\frac{1}{4}$	$\frac{5}{16}$ $\frac{1}{2}$	4	$\frac{1}{8}$ $\frac{1}{4}$	.14	.21	.32	22
23	$\frac{1}{8}$ & $\frac{1}{4}$	$\frac{5}{16}$ $\frac{1}{2}$	4	$\frac{1}{8}$ $\frac{1}{4}$	.14	.21	.32	23
24	$\frac{1}{8}$ & $\frac{1}{4}$	$\frac{5}{16}$ $\frac{1}{2}$	4	$\frac{1}{8}$ $\frac{1}{4}$	.17	.25	.38	24
25	$\frac{1}{8}$ & $\frac{1}{4}$	$\frac{5}{16}$ $\frac{1}{2}$	4	$\frac{1}{8}$ $\frac{1}{4}$	.17	.25	.38	25
26	$\frac{1}{8}$ & $\frac{1}{4}$	$\frac{5}{16}$ $\frac{1}{2}$	5	$\frac{1}{8}$ $\frac{1}{4}$	.21	.31	.46	26
27	$\frac{1}{8}$ & $\frac{1}{4}$	$\frac{5}{16}$ $\frac{1}{2}$	5	$\frac{1}{8}$ $\frac{1}{4}$	.21	.31	.46	27
28	$\frac{1}{8}$ & $\frac{1}{4}$	$\frac{5}{16}$ $\frac{1}{2}$	6	$\frac{1}{8}$ $\frac{1}{4}$	.25	.37	.56	28
29	$\frac{1}{8}$ & $\frac{1}{4}$	$\frac{5}{16}$ $\frac{1}{2}$	6	$\frac{1}{8}$ $\frac{1}{4}$	.25	.37	.56	29
30	$\frac{1}{8}$ & $\frac{1}{4}$	$\frac{5}{16}$ $\frac{1}{2}$	7	$\frac{1}{8}$ $\frac{1}{4}$	.30	.45	.68	30
31	$\frac{1}{8}$ & $\frac{1}{4}$	$\frac{5}{16}$ $\frac{1}{2}$	7	$\frac{1}{8}$ $\frac{1}{4}$	.30	.45	.68	31
32	$\frac{1}{8}$ & $\frac{1}{4}$	$\frac{5}{16}$ $\frac{1}{2}$	8	$\frac{1}{8}$ $\frac{1}{4}$	.37	.55	.85	32
33	$\frac{1}{8}$ & $\frac{1}{4}$	$\frac{5}{16}$ $\frac{1}{2}$	8	$\frac{1}{8}$ $\frac{1}{4}$	.37	.55	.85	33
34	$\frac{1}{8}$ & $\frac{1}{4}$	$\frac{5}{16}$ $\frac{1}{2}$	9	$\frac{1}{8}$ $\frac{1}{4}$	.46	.68	1.08	34
35	$\frac{1}{8}$ & $\frac{1}{4}$	$\frac{5}{16}$ $\frac{1}{2}$	9	$\frac{1}{8}$ $\frac{1}{4}$	.46	.68	1.08	35
36	$\frac{1}{8}$ & $\frac{1}{4}$	$\frac{5}{16}$ $\frac{1}{2}$	11	$\frac{1}{8}$ $\frac{1}{4}$	.66	.96	1.40	36
37	$\frac{1}{8}$ & $\frac{1}{4}$	$\frac{5}{16}$ $\frac{1}{2}$	11	$\frac{1}{8}$ $\frac{1}{4}$	.66	.96	1.40	37
38	$\frac{1}{8}$ & $\frac{1}{4}$	$\frac{5}{16}$ $\frac{1}{2}$	13	$\frac{1}{8}$ $\frac{1}{4}$	1.00	1.40	1.90	38
39	$\frac{1}{8}$ & $\frac{1}{4}$	$\frac{5}{16}$ $\frac{1}{2}$	13	$\frac{1}{8}$ $\frac{1}{4}$	1.00	1.40	1.90	39
40	$\frac{1}{8}$ & $\frac{1}{4}$	$\frac{5}{16}$ $\frac{1}{2}$	15	$\frac{1}{8}$ $\frac{1}{4}$	1.40	1.90	2.60	40
41	$\frac{1}{8}$ & $\frac{1}{4}$	$\frac{5}{16}$ $\frac{1}{2}$	15	$\frac{1}{8}$ $\frac{1}{4}$	1.40	1.90	2.60	41
42	$\frac{1}{8}$ & $\frac{1}{4}$	$\frac{5}{16}$ $\frac{1}{2}$	17	$\frac{1}{8}$ $\frac{1}{4}$	1.90	2.65	3.50	42
43	1 & $\frac{1}{4}$	$\frac{5}{16}$ $\frac{1}{2}$	17	$\frac{1}{8}$ $\frac{1}{4}$	1.90	2.65	3.50	43
44	1 & $\frac{1}{4}$	$\frac{5}{16}$ $\frac{1}{2}$	19	$\frac{1}{8}$ $\frac{1}{4}$	2.60	3.60	4.70	44
45	1 & $\frac{1}{4}$	$\frac{5}{16}$ $\frac{1}{2}$	19	$\frac{1}{8}$ $\frac{1}{4}$	2.60	3.60	4.70	45
46	1 & $\frac{1}{4}$	$\frac{5}{16}$ $\frac{1}{2}$	21	$\frac{1}{8}$ $\frac{1}{4}$	3.80	5.25	6.70	46
47	1 & $\frac{1}{4}$	$\frac{5}{16}$ $\frac{1}{2}$	21	$\frac{1}{8}$ $\frac{1}{4}$	3.80	5.25	6.70	47
48	1 & $\frac{1}{4}$	$\frac{5}{16}$ $\frac{1}{2}$	23	$\frac{1}{8}$ $\frac{1}{4}$	5.20	7.00	8.80	48
49	1 & $\frac{1}{4}$	$\frac{5}{16}$ $\frac{1}{2}$	23	$\frac{1}{8}$ $\frac{1}{4}$	5.20	7.00	8.80	49
50	1 & $\frac{1}{4}$	$\frac{5}{16}$ $\frac{1}{2}$	25	$\frac{1}{8}$ $\frac{1}{4}$	6.75	9.00	11.25	50
51	1 & $\frac{1}{4}$	$\frac{5}{16}$ $\frac{1}{2}$	25	$\frac{1}{8}$ $\frac{1}{4}$	7.40	9.90	12.40	51
52	1 & $\frac{1}{4}$	$\frac{5}{16}$ $\frac{1}{2}$	27	$\frac{1}{8}$ $\frac{1}{4}$	8.35	11.00	13.65	52
53	1 & $\frac{1}{4}$	$\frac{5}{16}$ $\frac{1}{2}$	27	$\frac{1}{8}$ $\frac{1}{4}$	9.00	12.00	15.00	53
53 $\frac{1}{2}$	1 & $\frac{1}{4}$	$\frac{5}{16}$ $\frac{1}{2}$	29	$\frac{1}{8}$ $\frac{1}{4}$	10.00	13.00	16.00	53 $\frac{1}{2}$
54	1 & $\frac{1}{4}$	$\frac{5}{16}$ $\frac{1}{2}$	31 $\frac{1}{2}$	$\frac{1}{8}$ $\frac{1}{4}$	11.00	14.25	17.50	54
55	1 & $\frac{1}{4}$	$\frac{5}{16}$ $\frac{1}{2}$	32 $\frac{1}{2}$	$\frac{1}{8}$ $\frac{1}{4}$	12.00	15.50	19.00	55
55 $\frac{1}{2}$	1 & $\frac{1}{4}$	$\frac{5}{16}$ $\frac{1}{2}$	33	$\frac{1}{8}$ $\frac{1}{4}$	13.50	17.00	20.50	55 $\frac{1}{2}$
56	1 & $\frac{1}{4}$	$\frac{5}{16}$ $\frac{1}{2}$	34	$\frac{1}{8}$ $\frac{1}{4}$	16.00	20.00	24.00	56
56 $\frac{1}{2}$	1 & $\frac{1}{4}$	$\frac{5}{16}$ $\frac{1}{2}$	35	$\frac{1}{8}$ $\frac{1}{4}$	17.00	21.00	25.00	56 $\frac{1}{2}$
57	2 & $\frac{1}{4}$	$\frac{5}{16}$ $\frac{1}{2}$	36	$\frac{1}{8}$ $\frac{1}{4}$	18.50	23.50	28.50	57
57 $\frac{1}{2}$	2 & $\frac{1}{4}$	$\frac{5}{16}$ $\frac{1}{2}$	37	$\frac{1}{8}$ $\frac{1}{4}$	23.00	28.00	33.00	57 $\frac{1}{2}$



TRADE

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SINGLE HEAD WRENCHES



For Hexagon Cap Screws
15° Angle

All stock wrenches are milled to fit standard Hexagon cap screws.
Larger or special sizes milled to order.

No.	For Hex. Head Cap Screw Diameter of Screws	Openings Finished	Length	Thick- ness of Head	PRICE EACH			No.
					Un- finished	Semi- finished	Finished	
700	$\frac{3}{16}$	$\frac{3}{8}$	$2\frac{7}{8}$	$\frac{7}{32}$	\$0.10	\$0.15	\$0.25	700
701	$\frac{1}{4}$	$\frac{7}{16}$	$3\frac{1}{4}$	$\frac{1}{4}$	.12	.18	.28	701
701A	$\frac{5}{16}$	$\frac{1}{2}$	$3\frac{3}{4}$	$\frac{1}{4}$	.12	.18	.28	701A
702	$\frac{3}{8}$	$\frac{9}{16}$	$4\frac{1}{4}$	$\frac{9}{32}$	.15	.22	.32	702
703	$\frac{7}{16}$	$\frac{5}{8}$	$5\frac{1}{2}$	$\frac{5}{16}$	.18	.26	.38	703
704	$\frac{1}{2}$	$\frac{3}{4}$	$6\frac{1}{2}$	$\frac{11}{32}$	.22	.32	.45	704
705	$\frac{9}{16}$	$\frac{13}{16}$	$7\frac{1}{2}$	$\frac{3}{16}$	.26	.38	.54	705
705A	$\frac{5}{8}$	$\frac{7}{8}$	$7\frac{1}{2}$	$\frac{3}{16}$	.26	.38	.54	705A
706	$\frac{3}{4}$	1	$8\frac{3}{8}$	$\frac{7}{16}$	.31	.46	.65	706
707	$\frac{7}{8}$	$1\frac{1}{8}$	9	$\frac{1}{2}$	.40	.57	.82	707
708	1	$1\frac{1}{4}$	$11\frac{1}{4}$	$\frac{9}{16}$	.55	.75	1.05	708
708A	$1\frac{1}{8}$	$1\frac{3}{8}$	$11\frac{1}{8}$	$\frac{9}{16}$.55	.75	1.05	708A
709	$1\frac{1}{4}$	$1\frac{1}{2}$	13	$\frac{1}{2}$.85	1.15	1.52	709
710	$1\frac{5}{8}$	$1\frac{5}{8}$	$14\frac{3}{4}$	$\frac{3}{4}$	1.20	1.60	2.10	710



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DOUBLE HEAD WRENCHES



For Hexagon Cap Screws
15° Angle

No.	For Hex. Head Cap Screws. Diameter of Screws	Openings Finished	Length	Thickness of Head	PRICE EACH			No.
					Unfin- ished	Semi- finished	Fin- ished	
721	1 3/8	&	3 1/4	5/32	\$0.12	\$0.17	\$0.26	721
722	1 3/8	&	4	5/32	.14	.21	.32	722
723	1 3/8	&	4	5/32	.14	.21	.32	723
723A	1 3/8	&	4	5/32	.14	.21	.32	723A
724	1 3/8	&	4 1/2	5/32	.17	.25	.38	724
725	1 3/8	&	4 1/2	5/32	.17	.25	.38	725
725A	1 3/8	&	4 1/2	5/32	.17	.25	.38	725A
725B	1 3/8	&	4 1/2	5/32	.17	.25	.38	725B
726	1 3/8	&	5	5/32	.21	.31	.46	726
727	1 3/8	&	5	5/32	.21	.31	.46	727
728	1 3/8	&	6	5/32	.25	.37	.56	728
729	1 3/8	&	6	5/32	.25	.37	.56	729
730	1 3/8	&	7	5/32	.30	.45	.68	730
731	1 3/8	&	7	5/32	.30	.45	.68	731
731A	1 3/8	&	7	5/32	.30	.45	.68	731A
731B	1 3/8	&	7	5/32	.30	.45	.68	731B
732	1 3/8	&	8	5/32	.37	.55	.85	732
732A	1 3/8	&	8	5/32	.37	.55	.85	732A
733	1 3/8	&	8	5/32	.37	.55	.85	733
734	1 3/8	&	9	5/32	.46	.68	1.08	734
735	1 3/8	&	9	5/32	.46	.68	1.08	735
736	1 3/8	&	11	5/32	.66	.96	1.40	736
737	1 3/8	&	11	5/32	.66	.96	1.40	737
738	1 3/8	&	13	5/32	1.00	1.40	1.90	738
739	1 3/8	&	13	5/32	1.00	1.40	1.90	739
739A	1 3/8	&	13	5/32	1.00	1.40	1.90	739A
739B	1 3/8	&	13	5/32	1.00	1.40	1.90	739B



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DOUBLE HEAD "S" WRENCHES



For U. S. Standard Nuts, 22½° Angle.

In Stock with openings for U. S. Standard Finished Nuts; Whitworth Standard and Metric Measure to order.

Number	For U. S. Standard Nuts; Size Bolts	Openings, Milled	Extreme Length	Thickness Heads	PRICE EACH			Number
					Un-finished	Semi-finished	Fin-ished	
661A	1/8" & 1/8"	5/16" & 3/8"	4	3/32"	.80	.22	.32	661A
661B	1/8" & 1/8"	5/16" & 3/8"	4	3/32"	.15	.22	.32	661B
661C	1/8" & 1/8"	5/16" & 3/8"	4	3/32"	.15	.22	.32	661C
662A	3/16" & 3/16"	3/8" & 1/2"	5	1/16"	.20	.29	.42	662A
662B	3/16" & 3/16"	3/8" & 1/2"	5	1/16"	.20	.29	.42	662B
662C	3/16" & 3/16"	3/8" & 1/2"	5	1/16"	.20	.29	.42	662C
663A	5/16" & 5/16"	1/2" & 5/8"	6 1/2	3/16"	.27	.39	.56	663A
663B	5/16" & 5/16"	1/2" & 5/8"	6 1/2	3/16"	.27	.39	.56	663B
663C	5/16" & 5/16"	1/2" & 5/8"	6 1/2	3/16"	.27	.39	.56	663C
664A	3/8" & 3/8"	1 1/8" & 1 1/4"	7 1/2	1/8"	.37	.53	.75	664A
664B	3/8" & 3/8"	1 1/8" & 1 1/4"	7 1/2	1/8"	.37	.53	.75	664B
664C	3/8" & 3/8"	1 1/8" & 1 1/4"	7 1/2	1/8"	.37	.53	.75	664C
665A	1/2" & 1/2"	1 1/2" & 1 3/4"	9	1/2"	.50	.72	1.00	665A
665B	1/2" & 1/2"	1 1/2" & 1 3/4"	9	1/2"	.50	.72	1.00	665B
665C	1/2" & 1/2"	1 1/2" & 1 3/4"	9	1/2"	.50	.72	1.00	665C
666A	5/8" & 5/8"	1 3/4" & 2"	10 1/2	5/16"	.74	1.00	1.35	666A
666B	5/8" & 5/8"	1 3/4" & 2"	10 1/2	5/16"	.74	1.00	1.35	666B
666C	5/8" & 5/8"	1 3/4" & 2"	10 1/2	5/16"	.74	1.00	1.35	666C
667A	3/4" & 3/4"	1 7/8" & 2 1/8"	12	3/8"	1.10	1.45	1.90	667A
667B	3/4" & 3/4"	1 7/8" & 2 1/8"	12	3/8"	1.10	1.45	1.90	667B
667C	3/4" & 3/4"	1 7/8" & 2 1/8"	12	3/8"	1.10	1.45	1.90	667C
668A	1" & 1"	2 1/8" & 2 3/8"	14	1"	1.90	2.50	3.20	668A
668B	1" & 1"	2 1/8" & 2 3/8"	14	1"	1.90	2.50	3.20	668B
668C	1" & 1"	2 1/8" & 2 3/8"	14	1"	1.90	2.50	3.20	668C



TRADE

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DOUBLE HEAD "S" WRENCHES



For Hexagon Head Cap Screws,
22½° Angle

In stock with openings milled for Hexagon Head Cap Screws; Whitworth Standard and Metric Measure to order. Openings for U. S. Standard Nuts, Square Head.

Number	For Hexagon Head Cap Screws; Diameter Screws	Openings, Milled	Extreme Length	Thickness Heads	PRICE EACH			Number
					Un-finished	Semi-finished	Fin-ished	
671A	1/4" & 3/8"	1/4" & 3/8"	4	3/32"	\$0.15	\$0.22	\$0.32	671A
671B	1/4" & 3/8"	1/4" & 3/8"	4	3/32"	.15	.22	.32	671B
671C	1/4" & 3/8"	1/4" & 3/8"	4	3/32"	.15	.22	.32	671C
671D	1/4" & 3/8"	1/4" & 3/8"	4	3/32"	.15	.22	.32	671D
672A	1/4" & 3/8"	1/4" & 3/8"	5	1/16"	.20	.29	.42	672A
672B	1/4" & 3/8"	1/4" & 3/8"	5	1/16"	.20	.29	.42	672B
672C	1/4" & 3/8"	1/4" & 3/8"	5	1/16"	.20	.29	.42	672C
672D	1/4" & 3/8"	1/4" & 3/8"	5	1/16"	.20	.29	.42	672D
673A	1/4" & 3/8"	1/4" & 3/8"	6 1/2	1/16"	.27	.39	.56	673A
673B	1/4" & 3/8"	1/4" & 3/8"	6 1/2	1/16"	.27	.39	.56	673B
673C	1/4" & 3/8"	1/4" & 3/8"	6 1/2	1/16"	.27	.39	.56	673C
673D	1/4" & 3/8"	1/4" & 3/8"	6 1/2	1/16"	.27	.39	.56	673D
674A	1/4" & 3/8"	1/4" & 3/8"	7 1/2	1/16"	.37	.53	.75	674A
674B	1/4" & 3/8"	1/4" & 3/8"	7 1/2	1/16"	.37	.53	.75	674B
674C	1/4" & 3/8"	1/4" & 3/8"	7 1/2	1/16"	.37	.53	.75	674C
675A	1/4" & 3/8"	1/4" & 1"	9	1/16"	.50	.72	1.00	675A
675B	1/4" & 3/8"	1/4" & 1"	9	1/16"	.50	.72	1.00	675B
675C	1/4" & 3/8"	1/4" & 1"	9	1/16"	.50	.72	1.00	675C
675D	1/4" & 3/8"	1/4" & 1"	9	1/16"	.50	.72	1.00	675D
676A	1/4" & 1"	1/4" & 1 1/2"	10 1/2	1/16"	.74	1.00	1.35	676A
676B	1/4" & 1"	1/4" & 1 1/2"	10 1/2	1/16"	.74	1.00	1.35	676B
676C	1/4" & 1"	1/4" & 1 1/2"	10 1/2	1/16"	.74	1.00	1.35	676C
677A	1" & 1 1/2"	1 1/4" & 1 3/4"	12	1/16"	1.10	1.45	1.90	677A
677B	1" & 1 1/2"	1 1/4" & 1 3/4"	12	1/16"	1.10	1.45	1.90	677B
677C	1" & 1 1/2"	1 1/4" & 1 3/4"	12	1/16"	1.10	1.45	1.90	677C



TRADE

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DOUBLE HEAD "S" WRENCHES



For Set Screws and Square Head Cap Screws,
22½° Angle

In stock with openings for Set Screws and Square Head Screws;
Whitworth Standard and Metric Measure to order.

Number	For Set Screws; Sizes	For Square Head Cap Screws; Diameter Screws	Openings, Milled	Extreme Length	Thick-ness, Heads	PRICE EACH			Number
						Un-finished	Semi-finished	Fin-ished	
681A	1/4	1/16	1/4	4	3/32	\$0.15	\$0.22	\$0.32	681A
681B	1/4	1/16	1/4	4	3/32	.15	.22	.32	681B
681C	1/4	1/16	1/4	4	3/32	.15	.22	.32	681C
681D	1/4	1/16	1/4	4	3/32	.15	.22	.32	681D
682A	1/4	1/16	1/4	5	3/32	.20	.29	.42	682A
682B	1/4	1/16	1/4	5	3/32	.20	.29	.42	682B
682C	1/4	1/16	1/4	5	3/32	.20	.29	.42	682C
682D	1/4	1/16	1/4	5	3/32	.20	.29	.42	682D
683A	1/4	1/16	1/4	6 1/2	3/32	.27	.39	.56	683A
683B	1/4	1/16	1/4	6 1/2	3/32	.27	.39	.56	683B
683C	1/4	1/16	1/4	6 1/2	3/32	.27	.39	.56	683C
683D	1/4	1/16	1/4	6 1/2	3/32	.27	.39	.56	683D
684H	1/4	1/16	1/4	7 1/2	3/32	.37	.53	.75	684H
684A	1/4	1/16	1/4	7 1/2	3/32	.37	.53	.75	684A
684B	1/4	1/16	1/4	7 1/2	3/32	.37	.53	.75	684B
684K	1/4	1/16	1/4	7 1/2	3/32	.37	.53	.75	684K
684C	1/4	1/16	1/4	7 1/2	3/32	.37	.53	.75	684C
684D	1/4	1/16	1/4	7 1/2	3/32	.37	.53	.75	684D
685A	3/8	1/8	3/8	9	1/2	.50	.72	1.00	685A
685B	3/8	1/8	3/8	9	1/2	.50	.72	1.00	685B
685C	3/8	1/8	3/8	9	1/2	.50	.72	1.00	685C
686A	7/8	1 1/2	7/8	10 1/2	1 1/2	.74	1.00	1.35	686A
686B	7/8	1 1/2	7/8	10 1/2	1 1/2	.74	1.00	1.35	686B
686C	7/8	1 1/2	7/8	10 1/2	1 1/2	.74	1.00	1.35	686C
686D	1	1 1/2	1	10 1/2	1 1/2	.74	1.00	1.35	686D
686E	1	1 1/2	1	10 1/2	1 1/2	.74	1.00	1.35	686E
687A	1 1/2	2	1 1/2	12	2	1.10	1.45	1.90	687A
687B	1 1/2	2	1 1/2	12	2	1.10	1.45	1.90	687B
687C	1 1/2	2	1 1/2	12	2	1.10	1.45	1.90	687C
688A	1 1/2	2	1 1/2	14	2 1/2	1.90	2.50	3.20	688A
688B	1 1/2	2	1 1/2	14	2 1/2	1.90	2.50	3.20	688B



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DOUBLE HEAD SET SCREW WRENCHES



15° Angle

No.	Set Screw Sizes	Extreme Length	Thickness of Heads	PRICE EACH			No.
				Un-finished	Semi-finished	Finished	
65	$\frac{3}{16}$ & $\frac{1}{4}$	3 $\frac{3}{4}$	$\frac{3}{16}$	\$0.14	\$0.20	\$0.30	65
66	$\frac{3}{16}$ & $\frac{5}{16}$	3 $\frac{3}{4}$	$\frac{3}{16}$	.16	.24	.35	66
67	$\frac{1}{4}$ & $\frac{5}{16}$	4 $\frac{1}{2}$	$\frac{1}{4}$	.16	.24	.35	67
68	$\frac{1}{4}$ & $\frac{3}{8}$	4 $\frac{1}{2}$	$\frac{1}{4}$	.19	.29	.42	68
69	$\frac{5}{16}$ & $\frac{3}{8}$	5 $\frac{1}{8}$	$\frac{5}{16}$	.19	.29	.42	69
70	$\frac{5}{16}$ & $\frac{7}{16}$	5 $\frac{1}{8}$	$\frac{5}{16}$	.24	.35	.52	70
71	$\frac{3}{8}$ & $\frac{7}{16}$	6 $\frac{1}{8}$	$\frac{3}{8}$	.24	.35	.52	71
72	$\frac{3}{8}$ & $\frac{1}{2}$	6 $\frac{1}{8}$	$\frac{3}{8}$	.30	.45	.66	72
73	$\frac{7}{16}$ & $\frac{1}{2}$	6 $\frac{1}{8}$	$\frac{7}{16}$	.30	.45	.66	73
74	$\frac{7}{16}$ & $\frac{9}{16}$	6 $\frac{1}{8}$	$\frac{7}{16}$	.36	.54	.80	74
75	$\frac{1}{2}$ & $\frac{9}{16}$	7 $\frac{5}{8}$	$\frac{1}{2}$	.36	.54	.80	75
76	$\frac{1}{2}$ & $\frac{5}{8}$	7 $\frac{5}{8}$	$\frac{1}{2}$	.44	.65	.96	76
77	$\frac{9}{16}$ & $\frac{5}{8}$	9 $\frac{1}{8}$	$\frac{9}{16}$	.44	.65	.96	77
78	$\frac{9}{16}$ & $\frac{3}{4}$	9 $\frac{1}{8}$	$\frac{9}{16}$	.56	.80	1.15	78
79	$\frac{5}{8}$ & $\frac{3}{4}$	10 $\frac{9}{16}$	$\frac{5}{8}$	.56	.80	1.15	79
80	$\frac{5}{8}$ & $\frac{7}{8}$	10 $\frac{9}{16}$	$\frac{5}{8}$	.72	1.00	1.40	80
81	$\frac{3}{4}$ & $\frac{7}{8}$	12 $\frac{1}{8}$	$\frac{3}{4}$	.72	1.00	1.40	81
82	$\frac{3}{4}$ & 1	12 $\frac{1}{8}$	$\frac{3}{4}$	.98	1.30	1.75	82
83	$\frac{7}{8}$ & 1	12 $\frac{5}{8}$	$\frac{7}{8}$	.98	1.30	1.75	83
84	$\frac{7}{8}$ & 1 $\frac{1}{8}$	12 $\frac{5}{8}$	$\frac{7}{8}$	1.35	1.75	2.25	84

TRIPLE HEAD WRENCHES



No.	For U. S. Standard Nuts, Size Bolt	For Set Screws Sizes	Extreme Length	Thickness of Heads	PRICE EACH			No.
					Un-finished	Semi-finished	Finished	
894A	$\frac{5}{16}$, $\frac{3}{8}$, $\frac{1}{2}$		5 $\frac{5}{8}$	$\frac{3}{8}$	\$0.40	\$0.56	\$0.80	894A
894B	$\frac{5}{16}$, $\frac{7}{16}$, $\frac{1}{2}$		5 $\frac{5}{8}$	$\frac{3}{8}$	.40	.56	.80	894B
894C	$\frac{3}{8}$, $\frac{1}{2}$, $\frac{1}{2}$		5 $\frac{5}{8}$	$\frac{3}{8}$.40	.56	.80	894C
894D		$\frac{1}{2}$, $\frac{3}{8}$, $\frac{2}{4}$	5 $\frac{5}{8}$	$\frac{3}{8}$.40	.56	.80	894D
894E		$\frac{9}{16}$, $\frac{3}{8}$, $\frac{3}{4}$	5 $\frac{5}{8}$	$\frac{3}{8}$.40	.56	.80	894E



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DOUBLE HEAD TOOL POST WRENCHES



For U. S. Standard Nuts and Set Screws
Unfinished wrenches have openings milled and holes broached

No.	Open End for U. S. Standard Nut		Closed End for Set Screw, Size	Extreme Length	Thick- ness of Heads	PRICE EACH			No.
	Size Bolt	Opening Milled				Un- finished	Semi- finished	Finished	
124	$\frac{3}{8}$	$\frac{11}{16}$	$\frac{9}{16}$	$6\frac{1}{2}$	$\frac{1}{2}$ & $\frac{5}{8}$	\$0.48	\$0.66	\$0.96	124
129	$\frac{1}{2}$	$\frac{7}{8}$	$\frac{7}{8}$	7	$\frac{9}{16}$ & $\frac{5}{8}$	.52	.72	1.04	129
130	$\frac{1}{2}$	$\frac{7}{8}$	$\frac{7}{8}$	7	$\frac{9}{16}$ & $\frac{5}{8}$	.52	.72	1.04	130
131	$\frac{1}{2}$	$\frac{7}{8}$	$\frac{7}{8}$	7	$\frac{9}{16}$ & $\frac{5}{8}$	.52	.72	1.04	131
132	$\frac{1}{2}$	$\frac{7}{8}$	$\frac{7}{8}$	7	$\frac{9}{16}$ & $\frac{5}{8}$	.52	.72	1.04	132
139	$\frac{5}{8}$	$\frac{11}{16}$	$\frac{5}{8}$	$7\frac{1}{2}$	$\frac{1}{2}$ & $\frac{5}{8}$	.60	.82	1.16	139
140	$\frac{5}{8}$	$\frac{11}{16}$	$\frac{5}{8}$	8	$\frac{1}{2}$ & $\frac{5}{8}$	.72	.97	1.34	140
143	$\frac{3}{4}$	$\frac{11}{16}$	$\frac{3}{4}$	9	$\frac{1}{2}$ & $\frac{5}{8}$	.90	1.20	1.60	143
144	$\frac{3}{4}$	$\frac{11}{16}$	$\frac{3}{4}$	9	$\frac{1}{2}$ & $\frac{5}{8}$	.90	1.20	1.60	144

SINGLE HEAD SET SCREW WRENCHES



Straight Opening

Any one of these wrenches can be milled one size larger or smaller if desired

No.	For Set Screw, Size	Extreme Length	Thickness of Head	PRICE EACH			No.
				Un- finished	Semi- finished	Finished	
280	$\frac{3}{16}$	3	$\frac{3}{16}$	\$0.10	\$0.14	\$0.23	280
281	$\frac{1}{4}$	$3\frac{1}{2}$	$\frac{7}{32}$	.12	.17	.27	281
282	$\frac{5}{16}$	$4\frac{1}{4}$	$\frac{1}{4}$	.14	.21	.31	282
283	$\frac{3}{8}$	$5\frac{3}{8}$	$\frac{5}{16}$	.17	.25	.37	283
284	$\frac{7}{16}$	6	$\frac{3}{8}$	.21	.31	.45	284
285	$\frac{1}{2}$	$6\frac{1}{2}$	$\frac{7}{16}$	.26	.38	.54	285
286	$\frac{9}{16}$	$7\frac{1}{2}$	$\frac{1}{2}$	.31	.45	.65	286
287	$\frac{5}{8}$	8	$\frac{9}{16}$	.38	.65	.80	287
288	$\frac{3}{4}$	9	$\frac{5}{8}$	.48	.68	.98	288
289	$\frac{7}{8}$	$10\frac{1}{2}$	$\frac{11}{16}$	.60	.84	1.20	289
290	1	12	$\frac{3}{4}$	.80	1.10	1.48	290
291	$1\frac{1}{8}$	12	$\frac{13}{16}$	1.10	1.40	1.80	291



DOUBLE HEAD SET SCREW TOOL POST WRENCHES



Holes broached. Closed end. $22\frac{1}{2}^\circ$ angle. Open end straight.

No.	Open End for Set Screws, Size, Inches	Closed End for Set Screws, Size, Inches	Length Over All, Inches	PRICE EACH			No.
				Un- finished	Semi- finished	Finished	
201	$\frac{7}{16}$	$\frac{7}{16}$	$5\frac{1}{2}$	\$0.40	\$0.56	\$0.80	201
202	$\frac{1}{2}$	$\frac{1}{2}$	6	.44	.62	.88	202
203	$\frac{9}{16}$	$\frac{9}{16}$	6	.44	.62	.88	203
204	$\frac{5}{8}$	$\frac{5}{8}$	$6\frac{3}{4}$	.52	.72	1.00	204
205	$\frac{11}{16}$	$\frac{11}{16}$	$6\frac{3}{4}$	.52	.72	1.00	205
206	$\frac{1}{4}$	$\frac{1}{4}$	$7\frac{1}{2}$	.60	.82	1.16	206

SINGLE HEAD BOX WRENCHES

$22\frac{1}{2}^\circ$ Angle



Unfinished Wrenches have Broached Opening

No.	For Set Screw, Size	Length	Thickness of Head	PRICE EACH			No.
				Un- finished	Semi- finished	Finished	
107	$\frac{3}{16}$	3	$\frac{1}{4}$	\$0.11	\$0.15	\$0.23	107
108	$\frac{1}{4}$	$3\frac{3}{4}$	$\frac{5}{16}$	.12	.17	.27	108
109	$\frac{5}{16}$	$3\frac{3}{4}$	$\frac{5}{16}$	.14	.20	.31	109
110	$\frac{3}{8}$	$4\frac{1}{4}$	$\frac{3}{8}$	.16	.24	.35	110
111	$\frac{7}{16}$	$4\frac{7}{8}$	$\frac{7}{16}$	.19	.28	.40	111
112	$\frac{1}{2}$	$5\frac{1}{2}$	$\frac{1}{2}$	.23	.34	.48	112
113	$\frac{9}{16}$	$6\frac{1}{4}$	$\frac{9}{16}$	.28	.41	.58	113
114	$\frac{5}{8}$	7	$\frac{5}{8}$.35	.50	.70	114
115	$\frac{3}{4}$	8	$\frac{3}{4}$.44	.62	.85	115
116	$\frac{7}{8}$	9	$\frac{7}{8}$.60	.81	1.10	116
117	1	10	$\frac{3}{4}$.80	1.05	1.40	117



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CHECK NUT WRENCHES



15° Angle, Single Head, Very Thin
For Check, Jam or Lock Nuts

No.	For U. S. Standard Nut; Size Bolts	Open- ing, Milled	Ex- treme Length	Thick- ness Head	PRICE EACH			No.
					Un- finished	Semi- finished	Finished	
800	$\frac{5}{16}$	$\frac{1}{32}$	$4\frac{1}{4}$	$\frac{11}{64}$	\$0.15	\$0.22	\$0.32	800
801	$\frac{3}{8}$	$\frac{1}{16}$	$5\frac{1}{8}$	$\frac{9}{16}$	.18	.26	.38	801
802	$\frac{7}{16}$	$\frac{3}{32}$	$5\frac{3}{4}$	$\frac{7}{32}$	.22	.32	.45	802
803	$\frac{1}{2}$	$\frac{7}{16}$	$6\frac{3}{8}$	$\frac{1}{4}$	.26	.38	.54	803
804	$\frac{9}{16}$	$\frac{1}{32}$	$7\frac{3}{8}$	$\frac{9}{32}$	.31	.45	.64	804
805	$\frac{5}{8}$	$1\frac{1}{16}$	$8\frac{1}{4}$	$\frac{5}{16}$	.38	.54	.76	805
806	$\frac{3}{4}$	$1\frac{1}{4}$	10	$\frac{3}{8}$	.48	.68	.94	806
807	$\frac{7}{8}$	$1\frac{1}{16}$	$11\frac{1}{2}$	$\frac{7}{16}$	.68	.92	1.25	807
808	1	$1\frac{3}{8}$	$13\frac{1}{4}$	$\frac{1}{2}$	1.00	1.30	1.70	808

CHECK NUT WRENCHES



"Thin", Double Head, 15° Angle

No.	For U. S. Standard Nuts; Size Bolts	Openings, Milled	Ex- treme Length	Thickness of Heads	PRICE EACH			No.
					Un- finished	Semi- finished	Finished	
825	$\frac{3}{8}$ & $\frac{7}{16}$	$\frac{11}{16}$ & $\frac{25}{32}$	6 $\frac{7}{8}$	$\frac{3}{16}$ & $\frac{7}{32}$	\$0.28	\$0.40	\$0.60	825
826	$\frac{3}{8}$ & $\frac{1}{2}$	$\frac{11}{16}$ & $\frac{1}{2}$			.28	.40	.60	826
827	$\frac{7}{16}$ & $\frac{1}{2}$	$\frac{11}{16}$ & $\frac{1}{2}$			.28	.40	.60	827
828	$\frac{7}{16}$ & $\frac{9}{16}$	$\frac{11}{16}$ & $\frac{31}{32}$	8 $\frac{1}{2}$	$\frac{7}{32}$ & $\frac{9}{32}$	.40	.56	.80	828
829	$\frac{1}{2}$ & $\frac{9}{16}$	$\frac{11}{16}$ & $\frac{31}{32}$			.40	.56	.80	829
830	$\frac{1}{2}$ & $\frac{5}{8}$	$\frac{11}{16}$ & $1\frac{1}{16}$			.40	.56	.80	830
831	$\frac{9}{16}$ & $\frac{5}{8}$	$\frac{11}{16}$ & $1\frac{1}{16}$	10 $\frac{3}{8}$	$\frac{9}{32}$ & $\frac{5}{16}$	.60	.84	1.15	831
832	$\frac{9}{16}$ & $\frac{3}{4}$	$\frac{11}{16}$ & $1\frac{1}{4}$			.60	.84	1.15	832
833	$\frac{5}{8}$ & $\frac{3}{4}$	$1\frac{1}{16}$ & $1\frac{1}{4}$			.60	.84	1.15	833
834	$\frac{3}{4}$ & $\frac{7}{8}$	$1\frac{1}{16}$ & $1\frac{7}{16}$	12 $\frac{5}{8}$	$\frac{5}{16}$ & $\frac{7}{16}$	1.00	1.30	1.75	834
835	$\frac{13}{16}$ & $\frac{7}{8}$	$1\frac{1}{4}$ & $1\frac{7}{8}$			1.00	1.30	1.75	835
836	$\frac{13}{16}$ & 1	$1\frac{1}{4}$ & $1\frac{3}{4}$			1.00	1.30	1.75	836



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GENERAL PURPOSE WRENCHES

22 $\frac{1}{2}$ ° Angle

For Carriage and Automobile Builders and for General Service in which a long, light wrench is required.

Milled regularly to dimensions shown below.

Can be milled to special combinations when required.

No.	Openings Finished Inches	Extreme Length Inches	Thickness of Heads, Inches	PRICE EACH			No.
				Un- finished	Semi- finished	Finished	
500	3 1/8	6 1/4	7/32	\$0.18	\$0.27	\$0.38	500
500A	3 3/8	6 1/4	7/32	.18	.27	.38	500A
500B	3 3/8	6 1/4	7/32	.18	.27	.38	500B
500C	3 3/8	6 1/4	7/32	.18	.27	.38	500C
501	3 1/2	6 1/4	7/32	.23	.34	.47	501
501A	3 1/2	6 1/4	7/32	.23	.34	.47	501A
501B	3 1/2	6 1/4	7/32	.23	.34	.47	501B
501C	3 1/2	6 1/4	7/32	.23	.34	.47	501C
502	3 3/4	6 1/4	7/32	.29	.43	.58	502
502A	3 3/4	6 1/4	7/32	.29	.43	.58	502A
502B	3 3/4	6 1/4	7/32	.29	.43	.58	502B
502C	3 3/4	6 1/4	7/32	.29	.43	.58	502C
503	3 3/4	6 1/4	7/32	.38	.55	.72	503
503A	3 3/4	6 1/4	7/32	.38	.55	.72	503A
503B	3 3/4	6 1/4	7/32	.38	.55	.72	503B
503C	3 3/4	6 1/4	7/32	.38	.55	.72	503C
504	3 3/4	6 1/4	7/32	.50	.70	.90	504
504A	3 3/4	6 1/4	7/32	.50	.70	.90	504A
504B	3 3/4	6 1/4	7/32	.50	.70	.90	504B
505	1	12	1 1/2	.70	1.00	1.30	505
505A	1	12	1 1/2	.70	1.00	1.30	505A
505B	1 1/8	12	1 1/2	.70	1.00	1.30	505B
505C	1 1/8	12	1 1/2	.70	1.00	1.30	505C



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GENERAL PURPOSE WRENCHES

In Sets



SET A

Contains 5 Wrenches, one each of the following:

No.	Manufacturers' Standard Nuts, Size Bolts, Inches	Openings Finished, Inches	Extreme Length, Inches	Thickness of Heads, Inches	PRICE EACH			No.
					Un-finished	Semi-finished	Finished	
500	$\frac{3}{16}$ & $\frac{1}{4}$	$\frac{3}{16}$ & $\frac{1}{4}$	6 $\frac{1}{2}$	$\frac{3}{16}$	\$0.18	\$0.27	\$0.38	500
501	$\frac{1}{4}$ & $\frac{5}{16}$	$\frac{1}{4}$ & $\frac{5}{16}$	7 $\frac{1}{2}$	$\frac{1}{4}$	.23	.34	.47	501
502	$\frac{5}{16}$ & $\frac{3}{8}$	$\frac{5}{16}$ & $\frac{3}{8}$	8 $\frac{1}{2}$	$\frac{5}{16}$	.29	.43	.58	502
503	$\frac{3}{8}$ & $\frac{7}{16}$	$\frac{3}{8}$ & $\frac{7}{16}$	9 $\frac{1}{2}$	$\frac{3}{8}$	.38	.55	.72	503
504	$\frac{7}{16}$ & $\frac{1}{2}$	$\frac{7}{16}$ & $\frac{1}{2}$	10 $\frac{1}{2}$	$\frac{7}{16}$	.50	.70	.90	504
Packed one set in cardboard box					1.58	2.29	3.05	
Packed one set in wooden box					1.74	2.45	3.21	
Packed one set in canvas roll					2.03	2.74	3.50	

SET B

Contains 3 Wrenches, one each of the following:

No.	Manufacturers' Standard Nuts, Size Bolts, Inches	Openings Finished, Inches	Extreme Length, Inches	Thickness of Heads, Inches	PRICE EACH			No.
					Un-finished	Semi-finished	Finished	
500	$\frac{3}{16}$ & $\frac{1}{4}$	$\frac{3}{16}$ & $\frac{1}{4}$	6 $\frac{1}{2}$	$\frac{3}{16}$	\$0.18	\$0.27	\$0.38	500
502	$\frac{5}{16}$ & $\frac{3}{8}$	$\frac{5}{16}$ & $\frac{3}{8}$	8 $\frac{1}{2}$	$\frac{5}{16}$	.29	.43	.58	502
504	$\frac{7}{16}$ & $\frac{1}{2}$	$\frac{7}{16}$ & $\frac{1}{2}$	10 $\frac{1}{2}$	$\frac{7}{16}$	.50	.70	.90	504
Packed one set in cardboard box					.97	1.40	1.86	
Packed one set in wooden box					1.11	1.54	2.00	
Packed one set in canvas roll					1.32	1.75	2.21	

SET D

Contains 5 Wrenches, for A. L. A. M. Standard Nuts and Cap Screws, one each of the following:

No.	For A. L. A. M. Standard Nuts and Cap Screws, Size of Bolts, or Cap Screws	Openings Finished, Inches	Extreme Length, Inches	Thickness of Heads, Inches	PRICE EACH			No.
					Un-finished	Semi-finished	Finished	
560	$\frac{1}{4}$ & $\frac{5}{16}$	$\frac{1}{4}$ & $\frac{5}{16}$	6 $\frac{1}{2}$	$\frac{3}{16}$	\$0.18	\$0.27	\$0.38	500
502A	$\frac{5}{16}$ & $\frac{3}{8}$	$\frac{5}{16}$ & $\frac{3}{8}$	8 $\frac{1}{2}$	$\frac{5}{16}$	.29	.43	.58	502A
503	$\frac{3}{8}$ & $\frac{7}{16}$	$\frac{3}{8}$ & $\frac{7}{16}$	9 $\frac{1}{2}$	$\frac{3}{8}$	.38	.55	.72	503
504A	$\frac{7}{16}$ & $\frac{1}{2}$	$\frac{7}{16}$ & $\frac{1}{2}$	10 $\frac{1}{2}$	$\frac{7}{16}$	.50	.70	.90	504A
505C	$\frac{1}{2}$ & $\frac{5}{8}$	$\frac{1}{2}$ & $\frac{5}{8}$	12	$\frac{1}{2}$	.70	1.00	1.30	505C
Packed one set in cardboard box					2.05	2.95	3.88	
Packed one set in wooden box					2.21	3.11	4.04	
Packed one set in canvas roll					2.50	3.40	4.33	



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GENERAL PURPOSE WRENCHES

In Sets



SET C

Contains 3 Wrenches, one each of the following:

No.	U. S. Standard Nuts, Size Bolts, Inches	Openings Finished, Inches	Extreme Length, Inches	Thickness of Heads, Inches	PRICE EACH			No.
					Un-finished	Semi-finished	Finished	
500B	$\frac{1}{2}$ & $\frac{1}{4}$	$\frac{1}{2}$ & $\frac{1}{2}$	6 $\frac{1}{2}$	$\frac{7}{32}$	\$0.18	\$0.27	\$0.38	500B
501B	$\frac{3}{8}$ & $\frac{1}{2}$	$\frac{3}{8}$ & $\frac{1}{2}$	7 $\frac{1}{2}$	$\frac{1}{4}$	.23	.34	.47	501B
503B	$\frac{1}{2}$ & $\frac{3}{4}$	$\frac{1}{2}$ & $\frac{3}{4}$	9 $\frac{1}{2}$	$\frac{1}{2}$	.38	.55	.72	503B
Packed one set in cardboard box .....					.79	1.16	1.57	
Packed one set in wooden box .....					.93	1.30	1.71	
Packed one set in canvas roll					1.14	1.51	1.92	

SET E

Contains 6 Wrenches, twelve much used openings, no duplicates, as follows:

No.	Openings Finished, Inches	Extreme Length, Inches	Thickness of Heads, Inches	PRICE EACH			No.
				Unfinished	Semi-finished	Finished	
500A	$\frac{1}{2}$ & $\frac{7}{16}$	6 $\frac{1}{2}$	$\frac{7}{32}$	\$0.18	\$0.27	\$0.38	500A
501A	$\frac{3}{8}$ & $\frac{1}{2}$	7 $\frac{1}{2}$	$\frac{1}{4}$	.23	.34	.47	501A
502B	$\frac{1}{2}$ & $\frac{3}{4}$	8 $\frac{1}{2}$	$\frac{1}{2}$	.29	.43	.58	502B
503A	$\frac{3}{8}$ & $\frac{1}{2}$	9 $\frac{1}{2}$	$\frac{1}{4}$	.38	.55	.72	503A
504	$\frac{1}{2}$ & 1	10 $\frac{1}{2}$	$\frac{1}{2}$	.50	.70	.90	504
505C	1 $\frac{1}{2}$ & 1 $\frac{1}{2}$	12	$\frac{1}{2}$	.70	1.00	1.30	505C
Packed one set in cardboard box				2.28	3.29	4.35	
Packed one set in wooden box				2.44	3.45	4.51	
Packed one set in canvas roll				2.73	3.74	4.80	

SET F

Contains 6 Wrenches, twelve openings, no duplicates, as follows:

No.	Openings Finished, Inches	Extreme Length, Inches	Thickness of Heads, Inches	PRICE EACH			No.
				Unfinished	Semi-finished	Finished	
500C	$\frac{1}{2}$ & $\frac{5}{16}$	6 $\frac{1}{2}$	$\frac{7}{32}$	\$0.18	\$0.27	\$0.38	500C
500A	$\frac{1}{2}$ & $\frac{7}{16}$	6 $\frac{1}{2}$	$\frac{7}{32}$	.18	.27	.38	500A
501C	$\frac{3}{8}$ & $\frac{1}{2}$	7 $\frac{1}{2}$	$\frac{1}{4}$	.23	.34	.47	501C
502C	$\frac{1}{2}$ & $\frac{3}{4}$	8 $\frac{1}{2}$	$\frac{1}{2}$	.29	.43	.58	502C
503C	$\frac{3}{8}$ & $\frac{1}{2}$	9 $\frac{1}{2}$	$\frac{1}{4}$	.38	.55	.72	503C
504B	$\frac{1}{2}$ & 1	10 $\frac{1}{2}$	$\frac{1}{2}$	.50	.70	.90	504B
Packed one set in cardboard box				1.76	2.56	3.43	
Packed one set in wooden box				1.92	2.72	3.59	
Packed one set in canvas roll				2.21	3.01	3.88	



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TEXTILE MACHINE WRENCHES

Double Head, 22 $\frac{1}{2}$ ° Angle

For Standard Hexagon or Square Nuts

Number	Length, Inches	Thickness of Head	For Standard Hex. Nuts: Size Bolts	Size of Openings	PRICE EACH			Number
					Unfinished	Semi-finished	Finished	
550	4 $\frac{1}{2}$	$\frac{1}{8}$	$\frac{3}{8}$ x $\frac{1}{2}$	$\frac{1}{8}$ x $\frac{1}{8}$	\$0.17	\$0.25	\$0.38	550
550A	4 $\frac{1}{2}$	$\frac{1}{8}$	$\frac{3}{8}$ x $\frac{1}{2}$	$\frac{1}{8}$ x $\frac{1}{8}$	.17	.25	.38	550A
551	5 $\frac{1}{2}$	$\frac{1}{8}$	$\frac{3}{8}$ x $\frac{1}{2}$	$\frac{1}{8}$ x $\frac{1}{8}$	.21	.31	.46	551
551A	5 $\frac{1}{2}$	$\frac{1}{8}$	$\frac{3}{8}$ x $\frac{1}{2}$	$\frac{1}{8}$ x $\frac{1}{8}$	.21	.31	.46	551A
552	7	$\frac{1}{8}$	$\frac{3}{8}$ x $\frac{1}{2}$	$\frac{1}{8}$ x $\frac{1}{8}$	.27	.40	.60	552
552A	7	$\frac{1}{8}$	$\frac{3}{8}$ x $\frac{1}{2}$	$\frac{1}{8}$ x $\frac{1}{8}$	.27	.40	.60	552A
553	8	$\frac{1}{8}$	$\frac{3}{8}$ x $\frac{1}{2}$	$\frac{1}{8}$ x $\frac{1}{8}$	.36	.53	.78	553
553A	8	$\frac{1}{8}$	$\frac{3}{8}$ x $\frac{1}{2}$	$\frac{1}{8}$ x $\frac{1}{8}$	.36	.53	.78	553A
554	9 $\frac{1}{2}$	$\frac{1}{8}$	$\frac{3}{8}$ x $\frac{1}{2}$	$\frac{1}{8}$ x $\frac{1}{8}$	.50	.72	1.05	554
554A	9 $\frac{1}{2}$	$\frac{1}{8}$	$\frac{3}{8}$ x $\frac{1}{2}$	$\frac{1}{8}$ x $\frac{1}{8}$	.50	.72	1.05	554A
555	10 $\frac{1}{2}$	$\frac{1}{8}$	$\frac{3}{8}$ x $\frac{1}{2}$	$\frac{1}{8}$ x $\frac{1}{8}$	.68	.96	1.40	555
555A	10 $\frac{1}{2}$	$\frac{1}{8}$	$\frac{3}{8}$ x $\frac{1}{2}$	$\frac{1}{8}$ x $\frac{1}{8}$	.68	.96	1.40	555A

DOUBLE HEAD "S" WRENCHES

22 $\frac{1}{2}$ ° Angle

Number	Size of Openings, Inches	Thickness of Head, Inches	Length Over All, Inches	PRICE EACH			Number
				Unfinished	Semi-finished	Finished	
220	$\frac{1}{8}$ & $\frac{1}{4}$	$\frac{1}{8}$	4	\$0.15	\$0.22	\$0.32	220
221	$\frac{1}{8}$ & $\frac{1}{4}$	$\frac{1}{8}$	5	.27	.37	.52	221
222	$\frac{1}{8}$ & $\frac{1}{4}$	$\frac{1}{8}$	6	.41	.57	.77	222
223	$\frac{1}{8}$ & $\frac{1}{4}$	$\frac{1}{8}$	7	.57	.76	1.06	223
224	$\frac{1}{8}$ & $\frac{1}{4}$	$\frac{1}{8}$	8	.72	.95	1.35	224
225	$\frac{1}{8}$ & $\frac{1}{4}$	$\frac{1}{8}$	9	.90	1.20	1.65	225



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TEXTILE MACHINE WRENCHES



In Sets

SET No. 10

Each set consists of one each Textile Wrench, Nos. 550, 551, 552, 553, 554 and 555.	PRICES			EXPORT PACKING			
	Price per set, Unfin.	Price per set, Semi-fin.	Price per set, Finished	No. sets to case	Net W'ght lbs.	Gross W'ght lbs.	Measurements each case
Cardboard box.....	\$2.19	\$3.17	\$4.67	50	225	265	12 $\frac{3}{4}$ x 14 $\frac{1}{2}$ x 24 $\frac{1}{2}$
Wooden box, slide cover	2.35	3.33	4.83	50	241	285	13 $\frac{1}{2}$ x 29 $\frac{1}{2}$ x 19 $\frac{1}{2}$
Canvas case.....	2.64	3.62	5.12	50	225	265	12 $\frac{3}{4}$ x 14 $\frac{1}{2}$ x 24 $\frac{1}{2}$

SELECTED SET No. 12

Set of five wrenches containing openings for every size bolt from $\frac{3}{16}$ to $\frac{7}{8}$.

Each set consists of one each Textile Wrench, Nos. 550, 551, 553A, 554 and 555A.	PRICES			EXPORT PACKING			
	Price per set, Unfin.	Price per set, Semi-fin.	Price per set, Finished	No. sets to case	Net W'ght lbs.	Gross W'ght lbs.	Measurements each case
Cardboard box.....	\$1.92	\$2.77	\$4.07	50	200	240	12 $\frac{3}{4}$ x 14 $\frac{1}{2}$ x 24 $\frac{1}{2}$
Wooden box, slide cover	2.08	2.93	4.23	50	216	260	13 $\frac{1}{2}$ x 29 $\frac{1}{2}$ x 19 $\frac{1}{2}$
Canvas case.....	2.37	3.22	4.52	50	200	240	12 $\frac{3}{4}$ x 14 $\frac{1}{2}$ x 24 $\frac{1}{2}$



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CONSTRUCTION WRENCHES AND CAR BUILDERS' WRENCHES



15° Angle

Unfinished wrenches have milled openings. Special sizes milled to order.

The round tang is for bringing bolt or rivet holes into line, and can be inserted into convenient openings.

No.	For U. S. Standard Nut; Bolt Size	Open- ings Finish'd	Length	Thick- ness of Head	PRICE EACH			No.
					Un- finished	Semi- finished	Finished	
451	$\frac{3}{8}$	$\frac{11}{16}$	9	$\frac{11}{32}$	\$0.35	\$0.45	.....	451
452	$\frac{1}{2}$	$\frac{7}{8}$	$11\frac{1}{2}$	$\frac{7}{16}$	.45	.58	.....	452
453	$\frac{9}{16}$	$\frac{3}{2}$	$12\frac{1}{2}$	$\frac{1}{2}$	.45	.58	.....	453
454	$\frac{5}{8}$	$1\frac{1}{16}$	14	$\frac{9}{16}$	.62	.80	.....	454
455	$\frac{3}{4}$	$1\frac{1}{4}$	16	$\frac{5}{8}$	.86	1.10	.....	455
456	$\frac{7}{8}$	$1\frac{7}{8}$	$17\frac{1}{2}$	$1\frac{1}{8}$	1.18	1.50	.....	456
457	1	$1\frac{5}{8}$	19	$1\frac{3}{4}$	1.60	2.10	.....	457

STRUCTURAL WRENCHES

Same as above, but with straight opening and off-set heads.

No.	For U. S. Standard Nut; Size Bolt	Opening	Extreme Length	Thickness of Head	PRICE EACH		No.
					Un- finished	Semi- finished	
481	$\frac{3}{8}$	$\frac{23}{32}$	9	$\frac{11}{32}$	\$0.40	\$0.52	481
482	$\frac{1}{2}$	$\frac{11}{16}$	$11\frac{1}{2}$	$\frac{7}{16}$	.52	.70	482
483	$\frac{9}{16}$	$\frac{3}{2}$	$12\frac{1}{2}$	$\frac{1}{2}$	.52	.70	483
484	$\frac{5}{8}$	$1\frac{1}{16}$	$14\frac{1}{8}$	$\frac{9}{16}$	.74	.98	484
485	$\frac{3}{4}$	$1\frac{3}{8}$	16	$\frac{5}{8}$	1.02	1.34	485
486	$\frac{7}{8}$	$1\frac{7}{8}$	$17\frac{1}{2}$	$1\frac{1}{8}$	1.40	1.80	486
487	1	$1\frac{5}{8}$	19	$1\frac{3}{4}$	1.90	2.50	487



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DOUBLE HEAD CAR WRENCHES

 $22\frac{1}{2}^{\circ}$ Angle, Long Leverage

Unfinished are milled only.

Semi-finished are milled, edges ground and case-hardened all over. Bright heads.

In stock for U. S. Standard nuts.

Finished wrenches can be supplied at double unfinished price.

No.	For U. S. Standard Nuts; Size Bolts	Openings	Extreme Length	Thickness Heads	PRICE EACH		No.
					Un-finished	Semi-finished	
367	$\frac{3}{8}$ & $\frac{1}{2}$	$\frac{23}{32}$ & $\frac{29}{32}$	12	$\frac{7}{16}$ & $\frac{1}{2}$	\$0.55	\$0.75	367
370	$\frac{1}{2}$ & $\frac{5}{8}$	$\frac{15}{16}$ & $1\frac{1}{8}$	19	$\frac{1}{2}$ & $\frac{5}{8}$	.95	1.25	370
371	$\frac{1}{2}$ & $\frac{3}{4}$	$\frac{15}{16}$ & $1\frac{1}{8}$	19	$\frac{1}{2}$ & $\frac{3}{4}$	1.15	1.55	371
372	$\frac{1}{2}$ & $\frac{3}{4}$	$\frac{15}{16}$ & $1\frac{1}{8}$	20	$\frac{1}{2}$ & $\frac{3}{4}$	1.15	1.55	372
373	$\frac{5}{8}$ & $\frac{3}{4}$	$1\frac{1}{8}$ & $1\frac{5}{8}$	20	$\frac{1}{2}$ & $\frac{3}{4}$	1.15	1.55	373
374	$\frac{5}{8}$ & $\frac{3}{4}$	$1\frac{1}{8}$ & $1\frac{1}{2}$	21	$\frac{1}{2}$ & $\frac{3}{4}$	1.35	1.85	374
375	$\frac{5}{8}$ & 1	$1\frac{1}{8}$ & $1\frac{1}{2}$	21	$\frac{1}{2}$ & $\frac{3}{4}$	1.35	1.85	375
376	$\frac{5}{8}$ & 1	$1\frac{5}{8}$ & $1\frac{1}{2}$	21	$\frac{1}{2}$ & $\frac{3}{4}$	1.35	1.85	376
377	$\frac{3}{4}$ & $1\frac{1}{8}$	$1\frac{5}{8}$ & $1\frac{1}{2}$	22	$\frac{1}{2}$ & $\frac{3}{4}$	1.65	2.25	377
378	$\frac{3}{4}$ & $1\frac{1}{8}$	$1\frac{5}{8}$ & $1\frac{1}{2}$	22	$\frac{1}{2}$ & $\frac{3}{4}$	1.65	2.25	378
379	$\frac{3}{4}$ & 1	$1\frac{1}{2}$ & $1\frac{1}{2}$	22	$\frac{1}{2}$ & $\frac{3}{4}$	1.65	2.25	379
380	$\frac{3}{4}$ & $1\frac{1}{8}$	$1\frac{1}{2}$ & $1\frac{1}{2}$	23	$\frac{1}{2}$ & $\frac{3}{4}$	1.95	2.65	380
381	$\frac{3}{4}$ & $1\frac{1}{8}$	$1\frac{1}{2}$ & $1\frac{1}{2}$	23	$\frac{1}{2}$ & $\frac{3}{4}$	1.95	2.65	381
382	1 & $1\frac{1}{8}$	$1\frac{1}{2}$ & $1\frac{1}{2}$	23	$\frac{1}{2}$ & $\frac{3}{4}$	1.95	2.65	382
383	1 & $1\frac{1}{4}$	$1\frac{1}{2}$ & $2\frac{1}{8}$	24	$\frac{1}{2}$ & $\frac{9}{16}$	2.25	3.15	383
385	$1\frac{1}{8}$ & $1\frac{1}{4}$	$1\frac{1}{2}$ & $2\frac{1}{8}$	24	$\frac{1}{2}$ & $\frac{9}{16}$	2.25	3.15	385
387	$1\frac{1}{8}$ & $1\frac{1}{2}$	$1\frac{1}{2}$ & $2\frac{1}{8}$	25	$\frac{1}{2}$ & $\frac{5}{8}$	3.40	4.50	387
389	$1\frac{1}{4}$ & $1\frac{1}{2}$	$2\frac{1}{16}$ & $2\frac{7}{16}$	25	$\frac{1}{2}$ & $\frac{3}{4}$	3.40	4.50	389